

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L7	0	(carrier and head and synchronization and timing and discriminator and prior and reconfigur\$4 and delay).clm.	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/19 09:20
L6	1	(carrier and head and synchronization and timing and discriminator and prior and reconfigur\$4 and delay).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/19 09:20
L5	8	3 AND 4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/19 09:19
S220	149	guard near (time period) near (variable program\$6 set setting )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/19 09:16
S128	4722	S126 or S127	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 09:16
L4	157	guard near (time period) near (variable program\$6 set setting )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/19 09:16
L3	5376	L1 or L2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 09:16
L2	3825	375/347,354.ccls.	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 09:16
L1	1656	375/148,136,148,149,150.ccls.	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/19 09:16

## EAST Search History

S22 4	2	("6275552").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/04 15:55
S22 3	21	S222 and S209	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/04 15:37
S22 2	45	S220 and S221	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 17:37
S22 1	89003	(header preamble) same data	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 17:37
S21 6	27	guard with (header and preamble and data)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 17:37
S21 9	0	S207 and S218	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 17:36
S21 8	159	(program\$5 variable) near guard	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 17:36
S21 7	16	S209 and S216	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 17:35

## EAST Search History

S21 3	9	S211 and S206	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 17:26
S21 5	1	guard and S214	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 17:17
S21 4	2	("6115426").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/03 17:16
S21 2	2870	guard adj time	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 17:13
S21 1	31	(US-6545997-\$ or US-5909436-\$ or US-6714511-\$ or US-5933421-\$ or US-6711221-\$ or US-6735242-\$ or US-6240098-\$ or US-6275552-\$ or US-6646980-\$ or US-5867478-\$ or US-6311043-\$ or US-6459744-\$ or US-6101399-\$ or US-6496144-\$ or US-6094421-\$ or US-6070079-\$ or US-5809087-\$ or US-6748015-\$ or US-6697633-\$ or US-6560209-\$ or US-6665545-\$ or US-6600447-\$ or US-6463261-\$ or US-6084928-\$ or US-6658063-\$ or US-6411257-\$). did. or (US-6219561-\$ or US-6058149-\$ or US-5870388-\$ or US-6958987-\$).did. or (JP-2002016579-\$).did.	USPAT; JPO	OR	ON	2006/03/03 17:13
S21 0	9	S208 and S209	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 17:06

## EAST Search History

S20 9	19390479	@ad < "20000630"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 17:06
S20 8	25	S206 same S207	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 17:06
S20 7	1789	data same header same preamble	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 17:06
S20 6	2870	guard adj time	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/03 17:05
S20 5	12	S204 and ofdm	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/24 14:43
S20 4	30	(US-5809087-\$ or US-5867478-\$ or US-5870388-\$ or US-5909436-\$ or US-5933421-\$ or US-6070079-\$ or US-6084928-\$ or US-6094421-\$ or US-6101399-\$ or US-6219561-\$ or US-6240098-\$ or US-6311043-\$ or US-6411257-\$ or US-6459744-\$ or US-6496144-\$ or US-6545997-\$ or US-6560209-\$ or US-6600447-\$ or US-6646980-\$ or US-6658063-\$ or US-6665545-\$ or US-6697633-\$ or US-6711221-\$ or US-6714511-\$ or US-6735242-\$ or US-6748015-\$). did. or (US-6275552-\$ or US-6463261-\$ or US-6058149-\$). did. or (JP-2002016579-\$).did.	USPAT; JPO	OR	ON	2005/08/24 14:42
S20 3	58	ofdm same (antenna near array)	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/24 14:42

## EAST Search History

S20 2	133	ofdm same (antenna near array)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/24 14:42
S20 1	1	(amplitude phase) and S200	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/24 14:42
S20 0	2	("5615409").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/24 10:21
S19 9	1	(arriv\$4 direction) and S198	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/24 10:20
S19 8	2	("6115426").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/24 09:55
S19 7	1	(guard near time) and S196	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/24 09:55
S19 6	2	("6058149").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/24 09:26
S19 5	56	guard near time near (information data)	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/24 09:26

## EAST Search History

S19 4	195	S193 and phase	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/23 17:05
S19 3	437	(adaptive configur\$4 chang\$4 set setting) with (guard near time)	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/23 17:02
S19 1	16823	(adaptive configur\$4 chang\$4 set setting) with (guard)	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/23 17:02
S19 2	21	S186 and S191	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/23 16:58
S19 0	34	S187 and (guard with information)	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/23 16:57
S18 9	1	S187 and (guard with (inform\$4))	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/23 16:38
S18 8	4	S187 and (guard with parameter)	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/23 16:37
S18 7	140	(antenna near array) and (guard same data)	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/23 16:36
S18 6	291	(antenna near array) and (guard same data)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/23 16:34

## EAST Search History

S18 5	2	S184 and guard	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/23 16:33
S18 4	2	("6714511").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/23 16:27
S18 3	0	voltage and S182	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/19 15:49
S18 2	2	("6658046").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/19 15:48
S18 1	102	transmi\$6 with (guard near (information parameter))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/19 15:22
S18 0	53	(parameter data) near (guard near time)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/19 15:22
S17 9	42	data near (guard near time)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/19 15:20
S17 8	735	data with (guard near time)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/19 14:48

## EAST Search History

S17 7	37	(guard near time near information)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/19 14:47
S17 6	7	(add adder adding) with (guard near information)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/19 14:42
S17 5	2360451	(add adder adding) "4" with (guard near information)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/19 14:31
S17 4	1	guard and "6115426".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/19 14:30
S17 3	1	correlat\$4 and S172	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/19 14:21
S17 2	2	("6229792").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/19 13:51
S17 1	0	S170 and synchroni\$7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/19 13:51
S17 0	2	("6115426").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/19 13:30



## EAST Search History

S16 9	11	ofdm and S168	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/19 13:30
S16 8	25	(US-5809087-\$ or US-5867478-\$ or US-5909436-\$ or US-5933421-\$ or US-6070079-\$ or US-6084928-\$ or US-6240098-\$ or US-6311043-\$ or US-6459744-\$ or US-6496144-\$ or US-6545997-\$ or US-6560209-\$ or US-6646980-\$ or US-6658063-\$ or US-6697633-\$ or US-6711221-\$ or US-6735242-\$ or US-6748015-\$ or US-6665545-\$ or US-6411257-\$ or US-6219561-\$ or US-6101399-\$ or US-6600447-\$ or US-6094421-\$). did. or (JP-2002016579-\$).did.	USPAT; JPO	OR	ON	2005/08/19 12:12
S16 7	488	(antenna near array) and ofdm	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/19 12:11
S16 6	0	(music esprit) and S165	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/19 12:11
S16 4	0	(music esprit) and S163	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/19 11:56
S16 5	2	("6115426").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/19 11:55
S16 3	2	("6708020").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/19 11:55

## EAST Search History

S16 2	90	S155 and S161	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/19 11:55
S16 1	18906	(configur\$4 set setting adaptive) with (guard preamble)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/18 17:47
S16 0	420	(configur\$4 set setting adaptive) with (guard near time)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/18 17:47
S15 9	103	S155 and (((guard preamble) near time) )	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/18 17:11
S15 8	12	S155 and (((guard preamble) near time) with set\$4)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/18 17:11
S15 7	73	S156 and correlat\$4	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/18 17:10
S15 6	113	S154 and S155	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/18 16:57
S15 5	16869	antenna near array	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/18 16:49
S15 4	6141	(guard preamble) same synchroni\$7	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/18 16:49
S15 3	29	ofdm and (linear near interpolat\$4)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/18 16:49
S15 2	62	S150 and S151	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/18 15:57

## EAST Search History

S15 1	16869	(antenna near array)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/18 15:30
S14 8	396	interpolat\$4 and (antenna near array)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/18 15:30
S15 0	10583	linear near interpolat\$4	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/18 15:29
S14 9	47	((amplitude and phase) same interpolat\$4) and (antenna near array)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/18 15:29
S14 7	24	S145 same phase	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/18 15:07
S14 6	298	S145 and phase	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/18 15:07
S14 5	1641	carrier adj2 hole	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/18 15:06
S14 4	31	S142 same phase	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/18 15:06
S14 3	0	S142 and (antenna near array)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/18 15:06
S14 2	1859	carrier near hole	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/18 15:05
S14 1	103	((guard preamble) near time) and (antenna near array)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/18 15:05
S14 0	4	music and esprit and ((guard preamble) near time)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/18 14:59

## EAST Search History

S13 9	56	music and esprit and demodulat\$4	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/18 14:58
S13 7	103	music and esprit	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/18 14:40
S13 8	31	S137 and equali\$7	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/18 11:59
S1	0	(kazuoki near masugatani).in.	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/18 11:54
S13 6	7	S135 and ofdm	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/16 19:27
S13 5	423	esprit	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/16 19:27
S13 4	31	S133 and (antenna\$2 same direction)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/16 19:27
S13 3	775	ofdm and (guard near (interval tim\$3))	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/16 18:50
S13 2	3	S130 and S131	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/23 16:08
S13 1	59	(antenna near array) and ofdm and delay	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/23 16:08
S13 0	670	375/260.ccls.	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/23 16:08
S12 9	12	S123 and S128	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/23 16:08

## EAST Search History

S12 3	59	(antenna near array) and ofdm and delay	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/23 16:08
S12 7	3528	375/347,354.ccls.	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/23 15:24
S12 6	1272	375/148,136,148,149,150.ccls.	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/23 15:24
S12 5	37	(antennae or antennas) and ofdm and delay.ab.	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/23 15:23
S12 4	6	(antenna near array) and ofdm and delay.ab.	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/23 15:13
S12 2	101	(antenna near array) and ofdm	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/23 14:43
S12 1	0	S119 and S120	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/23 14:42
S12 0	2	("4750147").PN.	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/23 14:32
S11 9	6	ofdm and esprit	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/23 14:32
S11 8	15	(orthogonal or ofdm) and S117	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/23 14:31

## EAST Search History

S11 7	19	(US-5867478-\$ or US-5909436-\$ or US-5933421-\$ or US-6459744-\$ or US-6560209-\$ or US-6646980-\$ or US-6658063-\$ or US-6711221-\$ or US-6735242-\$ or US-6748015-\$ or US-6545997-\$ or US-6496144-\$ or US-6697633-\$ or US-6311043-\$ or US-5809087-\$ or US-6240098-\$ or US-6084928-\$ or US-6070079-\$). did. or (JP-2002016579-\$).did.	USPAT; JPO	OR	OFF	2004/11/23 14:27
S11 6	0	(orthogonal or ofdm) and S115	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/23 14:27
S11 5	2	("6084928").PN.	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/23 14:23
S11 4	0	(orthogonal or ofdm) and S113	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/23 14:23
S11 3	2	("6311043").PN.	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/23 14:20
S11 2	51	ofdm and ( data with (guard or preamble or header or training or known)) and S109	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/23 14:20
S10 8	7644	(separat\$4 or divid\$4) with data with (guard or preamble or header or training or known)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/23 14:07
S11 1	2	("6018317"   "6087986").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/11/23 13:39
S11 0	47	S108 and S109	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/23 13:33
S10 9	15837	antenna near array	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/23 13:33

## EAST Search History

S98	15825	antenna near array	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/23 13:33
S10 7	12	S98 and S106	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/23 13:32
S10 6	773	guard with time with (reconfigu\$6 or configur\$6 or set\$4)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/22 22:32
S10 1	7178	guard with time	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/22 22:31
S10 5	16	ofdm and S104	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/22 22:27
S10 4	79	S102 and S103	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/22 22:27
S10 3	229714	pilot or preamble or training	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/22 22:27
S10 2	113	S98 and S101	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/22 22:27
S93	333294	pilot or guard or preamble or training	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/22 22:27
S99	958	guard near interval	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/22 22:26
S10 0	17	S98 and S99	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/22 22:25
S97	17	esprits and ((correlat\$4 or sync\$12) same S93)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/22 22:24

## EAST Search History

S96	2	S93 and S95	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/22 21:16
S95	2	("6545997").PN.	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/22 21:09
S94	0	S92 and S93	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/22 21:09
S92	4	((("6084928") or ("6311043")).PN.	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/22 21:09
S91	8	("4965732"   "5444451"   "6070079"   "6084928"   "6087974"   "6177906"   "6215983"   "6240098").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/11/22 17:16
S90	9	S89 and amplitude	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/22 16:39
S89	9	(delay same (amplitude and phase)) and esprit	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/22 16:39
S88	5	(esprit) and ofdm and correlat\$4	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/22 16:38
S87	56	(esprit or music) and ofdm and correlat\$4	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/22 16:31
S86	5	(esprit or music) and S85	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/22 16:29
S85	43	ofdm and (correlat\$4 same (late or early or lag\$4 or lead\$4))	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/22 16:28



## EAST Search History

S84	77	S81 and S82 and S83	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/22 16:26
S83	69870	music or esprit	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/22 16:20
S82	344129	preamble or pilot or training or guard	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/22 16:20
S81	4810	correlat\$4 same (amplitude and phase)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/22 16:20
S80	58	S74 and S75 and S79 and S77	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/22 16:20
S79	4245	(preamble or pilot or training or guard) same correlat\$4	USPAT	OR	OFF	2004/11/22 14:57
S78	46	S74 and S75 and S76 and S77	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/22 14:57
S77	154160	phase and amplitude	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/22 14:57
S76	3705	(reamble or pilot or training or guard) same correlat\$4	USPAT	OR	OFF	2004/11/22 14:57
S68	134	S67 and phase and amplitude	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/22 14:57
S75	195133	preamble or pilot or training or guard	USPAT	OR	OFF	2004/11/22 14:56
S74	26383	esprit or music	USPAT	OR	OFF	2004/11/22 14:56
S73	1	("6496144").URPN.	USPAT	OR	OFF	2004/11/22 14:55
S72	2	("6018317"   "6087986").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/11/19 17:13
S71	44	S67 and ((phase and amplitude) same (guard or pilot or training))	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/19 16:53

## EAST Search History

S70	28	S67 and ((phase and amplitude) same (guard or training))	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/19 16:53
S69	97	S68 and sync\$12	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/19 16:50
S67	438	ofdm and (antennas or antennae)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/19 16:50
S66	6	(direction same delay same demodulat\$4 same (guard or training)) and S62	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/19 16:50
S65	195	(direction same delay same demodulat\$4) and S62	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/19 16:23
S64	4904	(direction same delay) and S62	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/19 16:21
S63	242221	direction and S62	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/19 16:21
S62	977099	multicarrier or (multi near carrier) or subcarrier or (sub near carrier) or carrier	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/19 16:20
S58	977099	multicarrier or (multi near carrier) or subcarrier or (sub near carrier) or carrier	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/19 16:20
S61	76	S59 and ofdm and amplitude and phase	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/19 15:08
S60	92	S59 and ofdm	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/19 15:08
S59	4364	(esprit or music) and S58	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/19 15:08

## EAST Search History

S57	20	S56 and phase and amplitude	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/19 15:07
S54	4656	multicarrier or (multi near carrier)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/19 15:07
S56	81	S55 and ofdm	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/19 14:29
S55	195	sony.as. and S54	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/19 14:29
S53	1412	(makoto near tanaka).in.	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/19 14:28
S2	1401	(makoto near tanaka).in.	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/19 14:27
S52	0	(kazuoki near masugatani).in.	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/19 14:26
S51	257	(amplitude and phase and ofdm) and ((carrier or sub\$2carrier or channel) with (delay\$4 or lag\$4 or late))	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/11 13:00
S50	41043	(carrier or sub\$2carrier or channel) with (delay\$4 or lag\$4 or late)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/11 13:00
S49	870	amplitude and phase and ofdm	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/11 13:00
S48	852	amplitude and phase and ofdm	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/11 13:00
S46	18	ofdm and ((carrier or sub\$2carrier or channel) with (delay\$4 or lag\$4 or late) with measur\$5)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/11 13:00
S47	26	"5867478".URPN.	USPAT	OR	OFF	2004/10/11 10:53

## EAST Search History

S45	1916	(carrier or sub\$2carrier or channel) with (delay\$4 or lag\$4 or late) with measur\$5	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/11 10:35
S44	447	ofdm and ((carrier or sub\$2carrier or channel) with (delay\$4 or lag\$4 or late))	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/11 10:35
S43	41043	(carrier or sub\$2carrier or channel) with (delay\$4 or lag\$4 or late)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/11 10:35
S42	68	((carrier or subcarrier or sub\$2carrier or channel) with (delay or late or lag or lagging) with "between") and ofdm	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/07 17:51
S41	6284	(carrier or subcarrier or sub\$2carrier or channel) with (delay or late or lag or lagging) with "between"	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/07 17:51
S35	3193	(carrier or subcarrier or sub\$2carrier or channel) near (delay or late or lag or lagging)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/07 17:51
S40	40	((carrier or subcarrier or sub\$2carrier or channel) and (((lead\$3 with lag\$3) or (late with early)).drwd.)) and ((antenna near plurality) or antennas or antennae)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/07 17:41
S39	474	(carrier or subcarrier or sub\$2carrier or channel) and (((lead\$3 with lag\$3) or (late with early)).drwd.)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/07 17:41
S38	773	((lead\$3 with lag\$3) or (late with early)).drwd.	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/07 17:41
S34	8	(((((lead\$3 with lag\$3) or (late with early)) and ofdm) and timing) and ((antenna near plurality) or antennas or antennae)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/07 17:41
S32	51	((lead\$3 with lag\$3) or (late with early)) and ofdm	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/07 17:40

## EAST Search History

S37	10	((("6084927") or ("6178025") or ("6459744") or ("6522866") or ("6628730")).PN.	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/07 17:32
S36	55	((carrier or subcarrier or sub\$2carrier or channel) near (delay or late or lag or lagging)) and ofdm	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/07 17:32
S33	45	((lead\$3 with lag\$3) or (late with early)) and ofdm) and timing	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/07 17:18
S6	124	((lead same lag) or (late or early)) and ofdm	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/07 17:17
S31	9	carriers and ((timing near delay) with measure\$6)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/07 17:15
S30	28	ofdm and ((carrier) with delay with timing)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/07 17:14
S29	44	ofdm and ((carrier or channel) with delay with timing)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/07 17:01
S28	47	ofdm and (delay with phase with amplitude)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/07 15:30
S27	3744	delay with phase with amplitude	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/07 15:25
S26	19	((((ofdm and delay and amplitude and phase) and ((carrier or channel) same amplitude same phase)) and antenna\$2) and (guard or preamble)) and (delay same amplitude same phase)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/07 15:24
S25	107	((((ofdm and delay and amplitude and phase) and ((carrier or channel) same amplitude same phase)) and antenna\$2) and (guard or preamble))	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/07 14:49

## EAST Search History

S21	473	ofdm and delay and amplitude and phase	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/07 14:49
S24	160	((ofdm and delay and amplitude and phase) and ((carrier or channel) same amplitude same phase)) and antenna\$2	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/07 14:48
S23	323	(ofdm and delay and amplitude and phase) and ((carrier or channel) same amplitude same phase)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/07 14:48
S22	455	(ofdm and delay and amplitude and phase) and (carrier or channel)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/07 14:48
S20	1123	ofdm and delay	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/07 14:47
S19	3	((lead same lag) or (late same early)).drwd. ) and (antenna near array)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/07 14:47
S18	0	((lead same lag) or (late same early)).drwd. ) and ofdm	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/07 14:45
S17	816	((lead same lag) or (late same early)).drwd.	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/07 14:42
S16	0	((lead same lag) or (late same early)).drwd. and ofdm	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/07 14:42
S14	54	((lead same lag) or (late same early)) and ofdm	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/07 14:42
S15	49	((lead same lag) or (late same early)) and ofdm ) and phase and amplitude	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/07 14:24
S13	95	((lead same lag) or (late or early)) and ofdm ) and phase and amplitude	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/07 14:24

## EAST Search History

S12	125	((lead same lag) or (late or early)) and ofdm	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/07 14:24
S7	125	((lead same lag) or (late or early)) and ofdm	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/07 14:19
S11	7	antenna\$3 and (((lead same lag) or (late or early)) and ofdm) and (carrier or channel) and amplitude and phase) and (music or esprit))	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/06 17:51
S10	245856	antenna\$3	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/06 17:51
S9	40	((lead same lag) or (late or early)) and ofdm) and (carrier or channel) and amplitude and phase) and (music or esprit)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/06 17:50
S8	94	((lead same lag) or (late or early)) and ofdm) and (carrier or channel) and amplitude and phase	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/06 17:39
S5	6	((makoto near tanaka).in.) or ((kazuoki near matsugatani).in.)) and ofdm	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/06 17:35
S4	1414	((makoto near tanaka).in.) or ((kazuoki near matsugatani).in.)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/06 17:18
S3	14	(kazuoki near matsugatani).in.	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/06 17:18